



FCC ID: GDDJD-856R  
Report No.: T210120N03-RP1

Ref. No.: T190823N03-RP1

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Rev.: 00

# FCC 47 CFR PART 15 SUBPART C ANSI C63.10: 2013

## TEST REPORT

For

**CHERRY Stream Desktop Recharge -Receiver**

**Model: JD-856R**

**Data Applies To: JD-85R**

**Brand: CHERRY**

Test Report Number:  
**T210120N03-RP1**

Issued to

**CHERRY GmbH**

Cherrystraße, 91275 Auerbach, Deutschland/Germany

Issued by

**Compliance Certification Services Inc.**

**Tainan Lab.**

**No.8, Jiucengling, Xinhua Dist.,**

**Tainan City, Taiwan**

**Issued Date: May 11, 2021**

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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### **REVISION HISTORY**

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	May 11, 2021	See the following note rev.00	ALL	Gina Lin

**Note:**

- ※ Rev.00 Issue Date: May 11, 2021  
Apply for a new FCC ID for model JD-856R (Original FCC ID: GDDJD-85R).  
Please refer to remark 5 on page 5~6 for detailed information.  
Modify Product Name.



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## 1. TEST RESULT CERTIFICATION

**Product:** CHERRY Stream Desktop Recharge -Receiver  
**Model:** JD-856R  
**Data Applies To:** JD-85R  
**Brand Name:** CHERRY  
**Applicant:** CHERRY GmbH  
Cherrystraße, 91275 Auerbach, Deutschland/Germany  
**Manufacturer:** Jing Mold Electronic Tech. (Shen Zhen) Co., Ltd.  
Xin Qiao 3rd Industrial Estate, Sha Jing, Bao An, Shenzhen, Guangdong,  
P.R. China  
**Tested:** June 18, 2020 ~ July 02, 2020

### APPLICABLE STANDARDS

STANDARD	TEST RESULT
FCC 47 CFR Part 15 Subpart C ANSI C63.10: 2013	No non-compliance noted

### Statements of Conformity

Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

FCC Standard Section	Report Section	Test Item	Result
-	7.1	20dB BANDWIDTH	Pass
15.249(e)	7.2	BAND EDGES MEASUREMENT	Pass
-	7.3	DUTY CYCLE	Pass
15.249(a)	7.4	SPURIOUS EMISSION	Pass
15.207(a)	7.5	POWERLINE CONDUCTED EMISSIONS	Pass

### We hereby certify that:

The above equipment was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10: 2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements emission limits of FCC Rules Part 15.107, 15.109, 15.207, 15.209 and 15.249.

The test results of this report relate only to the tested sample identified in this report.

Approved by:



**Eric Huang**  
Section Manager

## 2. EUT DESCRIPTION

Product	CHERRY Stream Desktop Recharge -Receiver
Model Number	JD-856R
Data Applies To	JD-85R
Brand Name	CHERRY
Received Date	August 23, 2019
Reported Date	June 30, 2020
Operation Frequency	2406MHz~2476MHz
Transmit Peak Power	99.124 dBuV/m
Transmit Data Rate	2Mbps
Type of Modulation	GFSK
Number of Channels	71 Channels
Power Supply	DC 5V, 20mA
Antenna Type	Type: PCB Antenna Model: JD-85R Manufacturer: Sunrex Gain: -1.89 dBi
RF Module Model	nREF24LU1+
Hardware Version	v1.2
Software Version	N/A
Firmware Version	v05
Temperature Range	0°C ~ +40°C

### Remark:

1. Client consigns only one model sample to test (Model Number: JD-856R). Therefore, the testing Lab. just guarantees the unit, which has been tested.
2. This submittal(s) (test report) is intended for FCC ID: **GDDJD-856R** filing to comply with Section 15.107 & 15.109 (FCC Part 15, Subpart B) and Section 15.207, 15.209, 15.249.
3. For more details, please refer to the User's manual of the EUT.
4. According to customer declaration CHERRY Stream Desktop Recharge - Keyboard (**JD-856K/FCC ID: GDDJD-856K**) or CHERRY Stream Desktop Recharge -Wireless Mouse (**JD-856M/FCC ID: GDDJD-856M**) for sale.
5. The listed model (JD-856R) are all the same of the model (JD-85R/**FCC ID: GDDJD-85R**) in original test report design, except for different model name, FCC ID and is just for the marketing purpose.

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After technical evaluated by testing Lab., the measurement item(s) of the existing modifications model (JD-856R) was(were) only selected for the final test as listed below since other measurement item(s) do not affect the EMI results.

<b>1.</b>	<b>SPURIOUS EMISSION (The fundamental signal)</b>
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The Transmit Peak Power of the test result is 97.82 dBuV/m, which is under the value of original test data (99.124 dBuV/m), therefore, the original test data can be applied and duplicated in the test report.(please refer to:T190823N03-RP1)

### 3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10 and FCC CFR 47 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057, 15.207, 15.209 and 15.249.

#### 3.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

#### 3.2 EUT EXERCISE

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

According to its specifications, the EUT must comply with the requirements of the Section 15.107 and 15.109 under the FCC Rules Part 15 Subpart B and Section 15.207, 15.209, 15.249 under the FCC Rules Part 15 Subpart C.

#### 3.3 GENERAL TEST PROCEDURES

##### Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.10 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

##### Radiated Emissions

The EUT is placed on a turn table, which is 1.5 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.10.

### 3.4 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

- Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
<sup>1</sup> 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 -	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.52525	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	156.7 - 156.9	3260 - 3267	23.6 - 24.0
12.29 - 12.293	162.0125 - 167.17	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	167.72 - 173.2	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	240 - 285	3600 - 4400	( <sup>2</sup> )
13.36 - 13.41	322 - 335.4		

<sup>1</sup> Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

<sup>2</sup> Above 38.6

- Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

### 3.5 DESCRIPTION OF TEST MODES

The EUT ( **Model: JD-85R** ) had been tested under engineering test mode condition and the EUT staying in continuous transmitting mode.



## 4. INSTRUMENT CALIBRATION

### 4.1 MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

### 4.2 MEASUREMENT EQUIPMENT USED

#### Equipment Used for Emissions Measurement

Chamber Room #966					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Active Loop Antenna	ETS-LINDREN	6502	8905-2356	08/02/2019	08/01/2021
Bilog Antenna With 6dB Attenuator	SUNOL SCIENCES & EMCI	JB1 & AT-N0681	A070506-1 & AT-N0681	09/14/2020	09/13/2021
Cable	Suhner	SUCOFLEX104 PEA	20520/4PEA&O6	01/29/2021	01/28/2022
Double Ridged Guide Horn Antenna	ETS-LINDGREN	3116	00078900	03/26/2020	03/25/2021
EMI Test Receiver	R&S	ESCI	100960	02/05/2021	02/04/2022
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY54430216	07/20/2020	07/19/2021
Horn Antenna	Com-Power	AH-118	071032	04/29/2020	04/28/2021
Pre-Amplifier	EMCI	EMC012645	980098	01/29/2021	01/28/2022
Pre-Amplifier	HP	8447F	2443A01683	01/19/2021	01/18/2022
Pre-Amplifier	Com-Power	PAM-840A	461378	07/20/2020	07/19/2021
Type N coaxial cable	Suhner	CHA9513	6	01/19/2021	01/18/2022
Notch Filter	MICRO-TRONICS	BRM50702-01	018	N.C.R	N.C.R
Software	Excel(ccs-o6-2020 v1.1) , e3(v6.101222)				

#### Equipment Used for POWERLINE CONDUCTED EMISSIONS

Conducted Emission room #1					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
BNC Coaxial Cable	CCS	BNC50	11	01/22/2020	01/21/2021
EMI Test Receiver	R&S	ESCS 30	100348	02/20/2020	02/19/2021
LISN	SCHWARZBECK	NNLK8130	8130124	01/17/2020	01/16/2021
LISN	R&S	ESH3-Z5	840062/021	07/11/2019	07/10/2020
Pulse Limiter	R&S	ESH3-Z2	100116	01/22/2020	01/21/2021
Test S/W	e3(6.101222)				

### 4.3 MEASUREMENT UNCERTAINTY

Parameter	Uncertainty
Radiated Emission, 30 to 200 MHz Test Site : CB966	$\pm 3.1\text{dB}$
Radiated Emission, 200 to 1000 MHz Test Site : CB966	$\pm 2.7\text{dB}$
Radiated Emission, 1 to 6 GHz	$\pm 2.7\text{dB}$
Radiated Emission, 6 to 18 GHz	$\pm 2.7\text{dB}$
Radiated Emission, 18 to 26.5 GHz	$\pm 2.7\text{dB}$
Radiated Emission, 26 to 40 GHz	$\pm 3.7\text{dB}$
Power Line Conducted Emission	$\pm 2.0\text{dB}$

Uncertainty figures are valid to a confidence level of 95%,  $k=2$

## 5. FACILITIES AND ACCREDITATIONS

### 5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

☒ No.8, Jiucengling, Xinhua Dist., Tainan City 712, Taiwan (R.O.C.)

The sites are constructed in conformance with the requirements of ANSI C63.7:1992, ANSI C63.10: 2013 and CISPR Publication 22.

### 5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

### 5.3 LABORATORY ACCREDITATIONS LISTING

The test facilities used to perform radiated and conducted emissions tests are accredited by Taiwan Accreditation Foundation for the specific scope of accreditation under Lab Code: 1109 to perform Electromagnetic Interference tests according to FCC PART 15 AND CISPR 22 requirements. No part of this report may be used to claim or imply product endorsement by TAF or any agency of the Government. In addition, the test facilities are listed with Federal Communications Commission (registration no: TW1109).

## 5.4 TABLE OF ACCREDITATIONS AND LISTINGS

Our laboratories are accredited and approved by the following accreditation body according to ISO/IEC 17025.

<b>Taiwan</b>	TAF
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The measuring facility of laboratories has been authorized or registered by the following approval agencies.

<b>Canada</b>	Industry Canada
<b>Germany</b>	TUV NORD
<b>Taiwan</b>	BSMI
<b>USA</b>	FCC
<b>Japan</b>	VCCI

Copies of granted accreditation certificates are available for downloading from our web site, <http://www.ccsrf.com>

## 6. SETUP OF EQUIPMENT UNDER TEST

### 6.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix I for the actual connections between EUT and support equipment.

### 6.2 SUPPORT EQUIPMENT

#### 【RF】

No.	Product	Manufacturer	Model No.	Certify No.	Signal cable
1	Note book	Acer	AS 3830TG	DOC	Power cable, unshd, 1.6m
2	Note book	TOSHIBA	Satellite L730	DOC	Power cable, unshd, 1.6m

No.	Signal cable description				
A	-	-	-	-	-

#### 【EMC】

No.	Product	Manufacturer	Model No.	Certify No.	Signal cable
1	LCD Monitor	ViewSonic	VS15449	DOC	VGA cable, shd, 1.8m
2	Keyboard(USB)	Lenovo	KU-0225	DOC	Keyboard cable, shd, 1.8m
3	PC	HP	HP pro 3330 MT	QT035AV	N/A
4	Bluetooth mouse	N/A	JD-8500DE	DVT1 Mouse	N/A

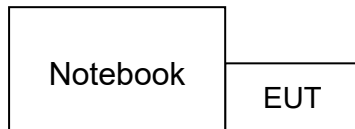
No.	Signal cable description				
A	USB	Shielded, 1.5m, 1pcs.			
B	AC power cable	Unshielded, 1.6m, 1pcs.			
C	AC power cable	Unshielded, 1.6m, 1pcs.			
D	VGA	Shielded, 1.6m, 1pcs with 2 core			
E	Bluetooth	N/A			

#### Remark:

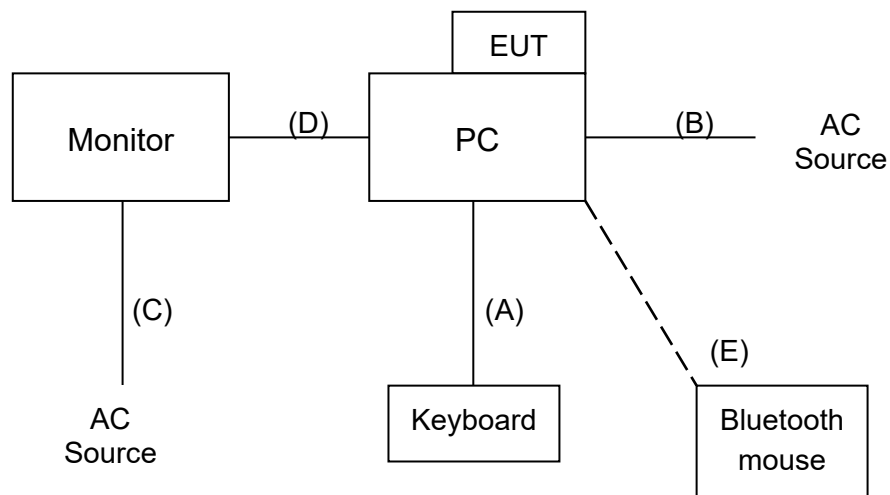
- All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

## 6.3 CONFIGURATION OF SYSTEM UNDER TEST

### 【RF】



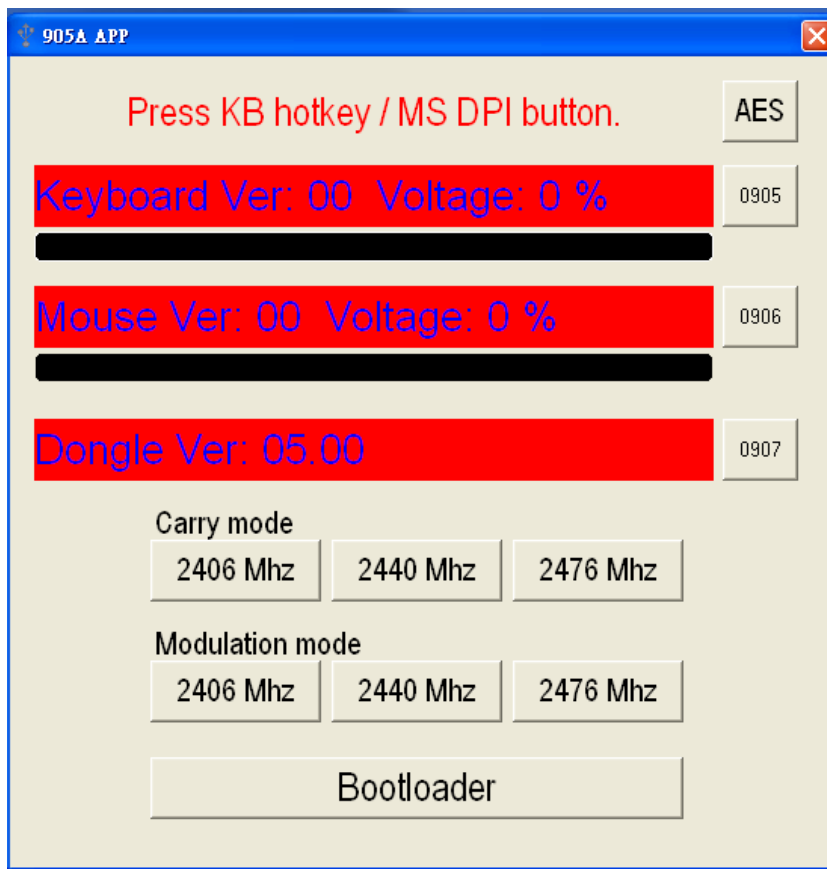
### 【EMC】



## 6.4 EUT OPERATING CONDITION

### RF Setup

1. Set up all computers like the setup diagram.
2. The "905A\_APP\_v1120" software was used for testing.



### TX Mode:

Modulation mode

2406Mhz : Low\_freq 低頻

2440Mhz : Mid\_freq 中頻

2476Mhz : High\_freq 高頻

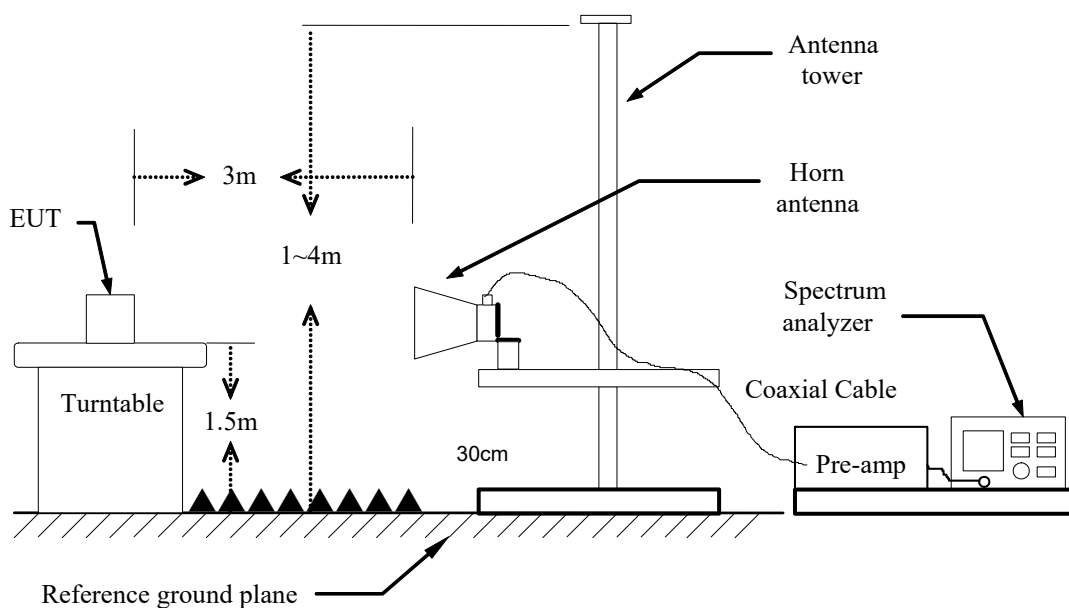
## 7. FCC PART 15.249 REQUIREMENTS

### 7.1 20 dB BANDWIDTH

#### LIMIT

None; for reporting purposes only.

#### Test Configuration



#### TEST PROCEDURE

1. The EUT is placed on a turntable, which is 1.5m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Set the spectrum analyzer in the following setting as:  
RBW is set to 10 kHz and VBW is set 300kHz.





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## **TEST RESULTS**

No non-compliance noted.

## **TEST DATA**

**Operation Mode:** TX

**Test Date:** 2020/06/18

**Temperature:** 27.8°C

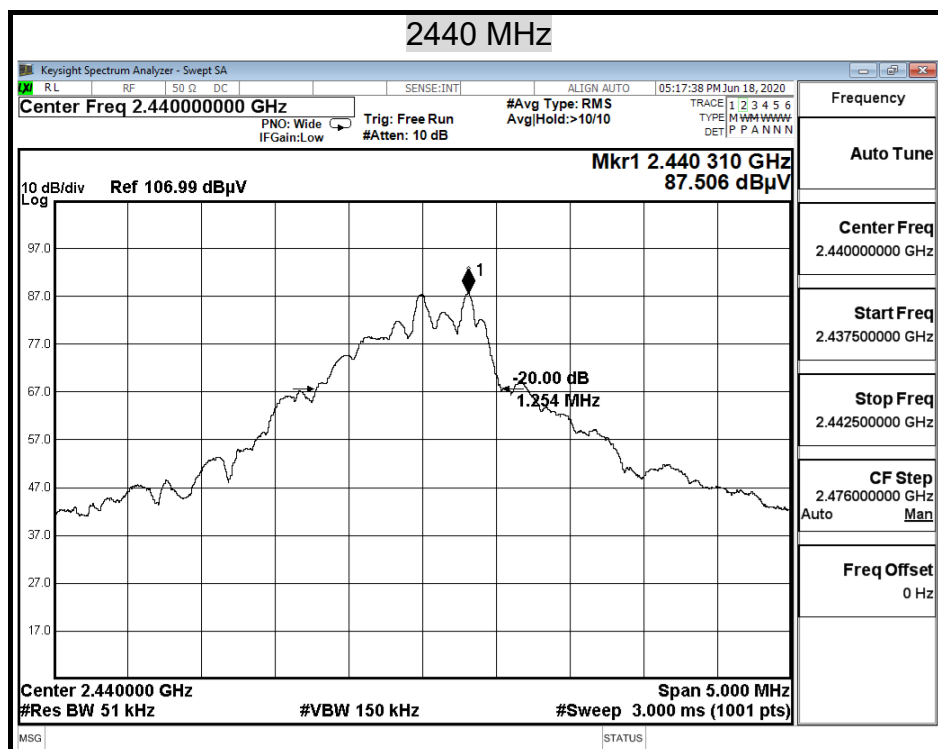
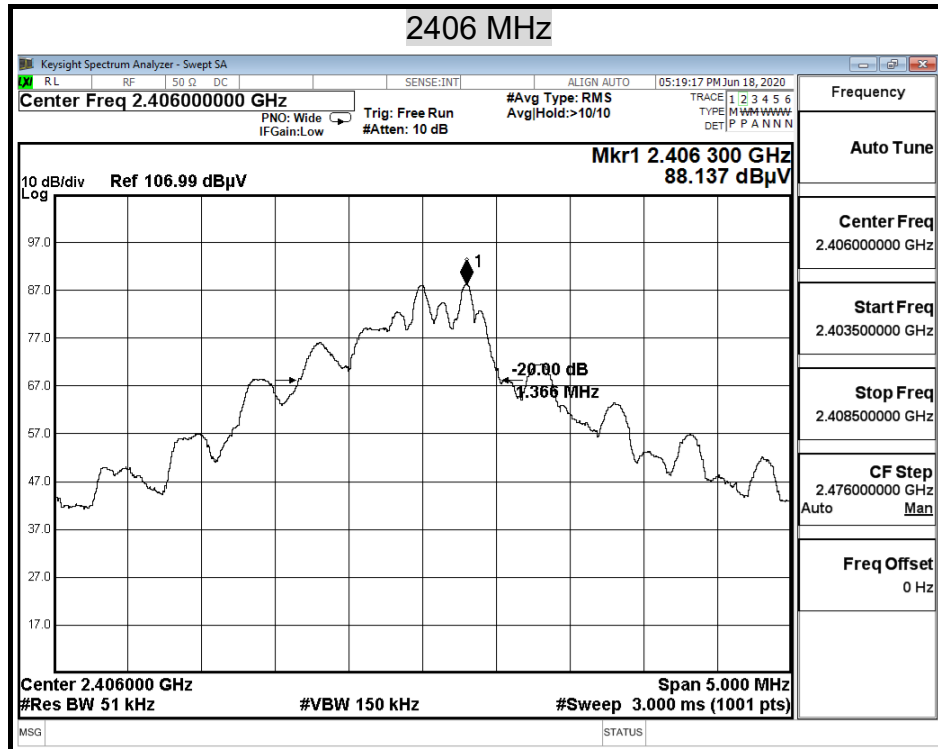
**Tested by:** Ted Huang

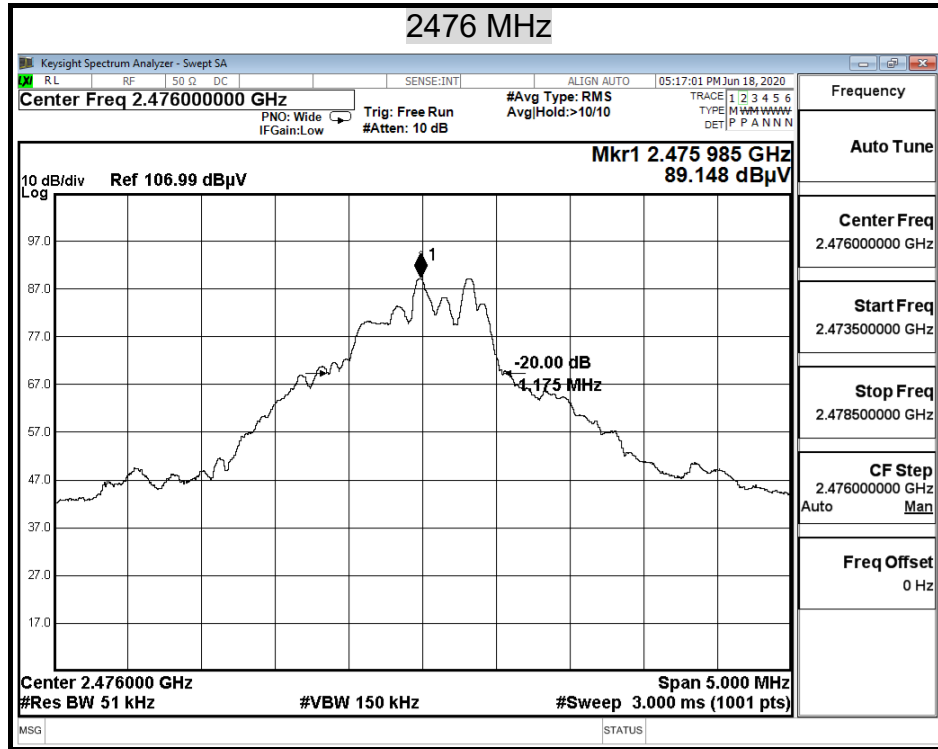
**Humidity:** 56% RH

**Polarity:** Ver. / Hor.

Channel	Frequency (MHz)	20 dB Bandwidth (MHz)
LOW	2406	1.366
MIDDLE	2440	1.254
HIGH	2476	1.175

## TEST PLOT





## 7.2 BAND EDGES MEASUREMENT

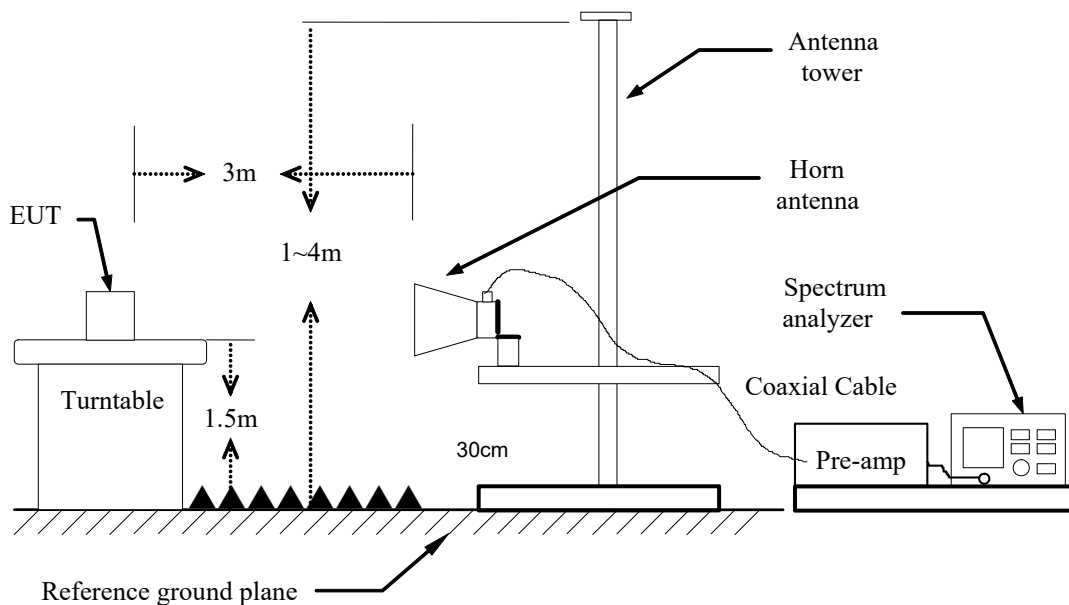
### LIMIT

1. In the above emission table, the tighter limit applies at the band edges.

Frequency (MHz)	Field Strength ( $\mu\text{V/m}$ at 3-meter)	Field Strength (dB $\mu\text{V/m}$ at 3-meter)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

2. As shown in Section 15.35(b), for frequencies above 1000 MHz, the above field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.

### TEST CONFIGURATION



## **TEST PROCEDURE**

1. The EUT is placed on a turntable, which is 1.5m above the ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
  - (a) PEAK: RBW=1MHz , VBW=3MHz / Sweep=AUTO
  - (b) AVERAGE: Peak Level + Duty Factor
5. Repeat the procedures until all the PEAK and AVERAGE versus polarization are measured.

## **TEST RESULTS**

**Operation Mode:** TX

**Temperature:** 27.8°C

**Humidity:** 56% RH

**Test Date:** 2020/06/18

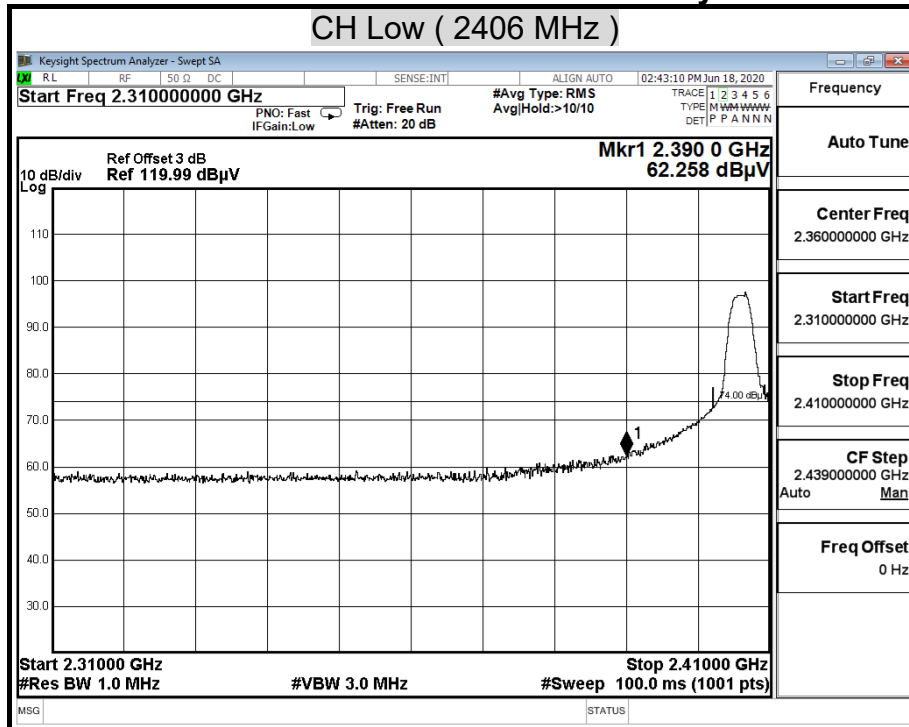
**Tested by:** Ted Huang

**Polarity:** Ver. / Hor.

## TEST PLOT

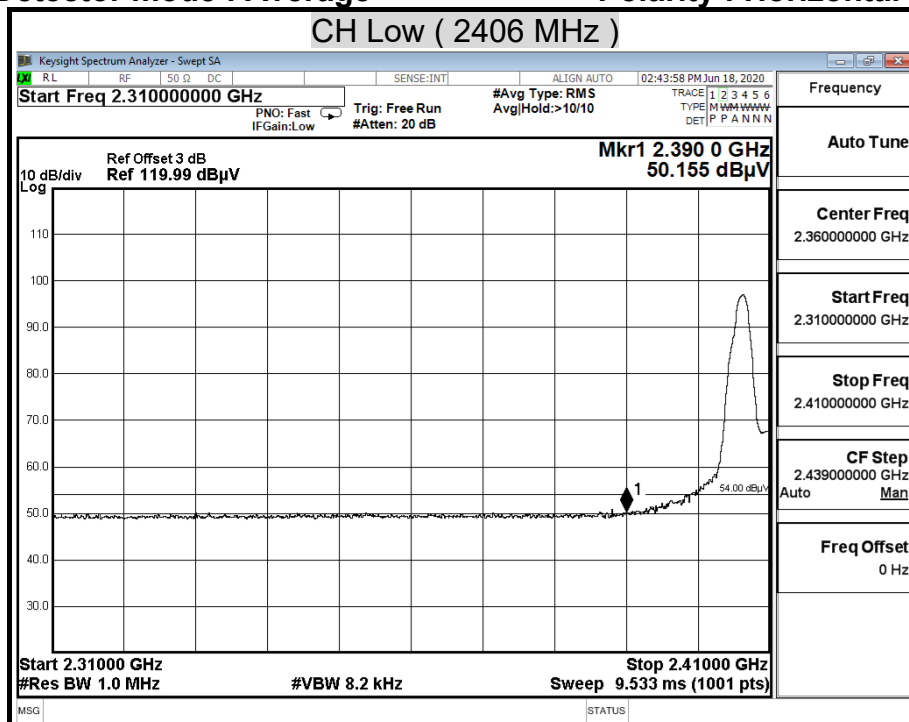
Detector mode : Peak

Polarity : Horizontal



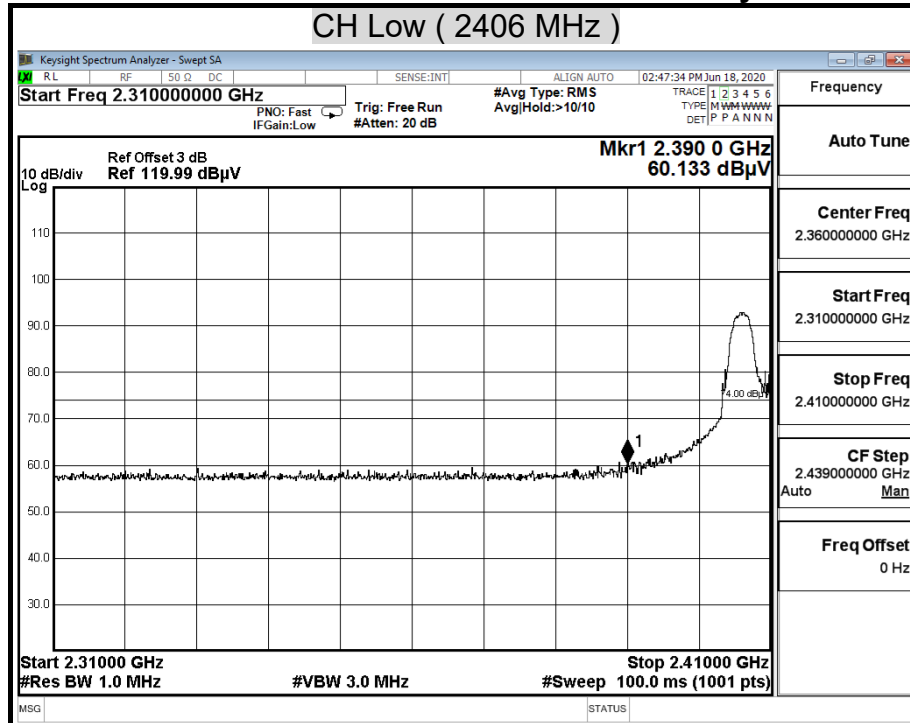
Detector mode : Average

Polarity : Horizontal



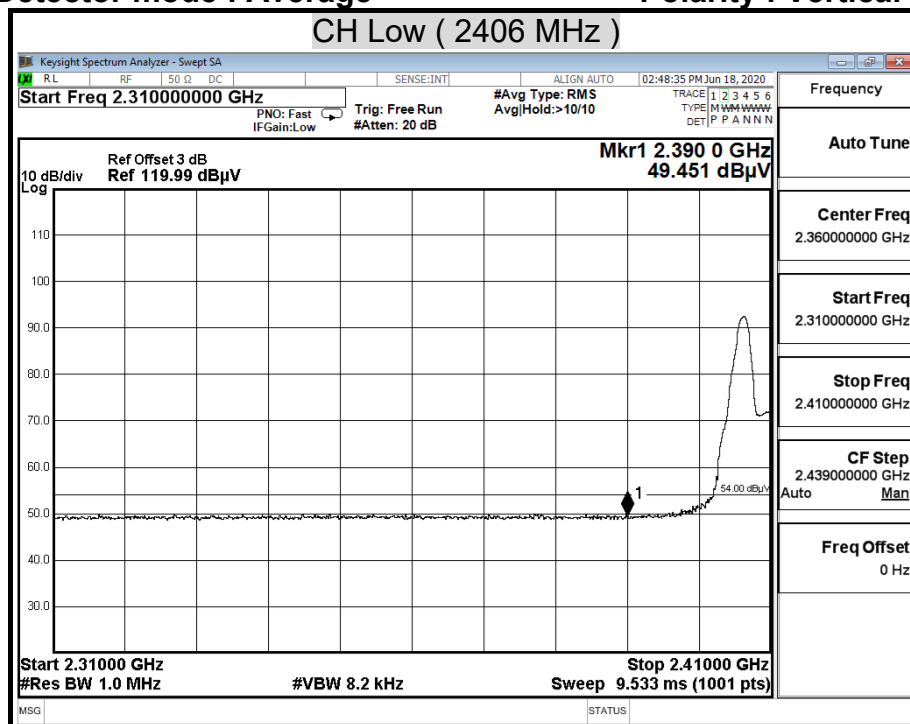
Detector mode : Peak

Polarity : Vertical



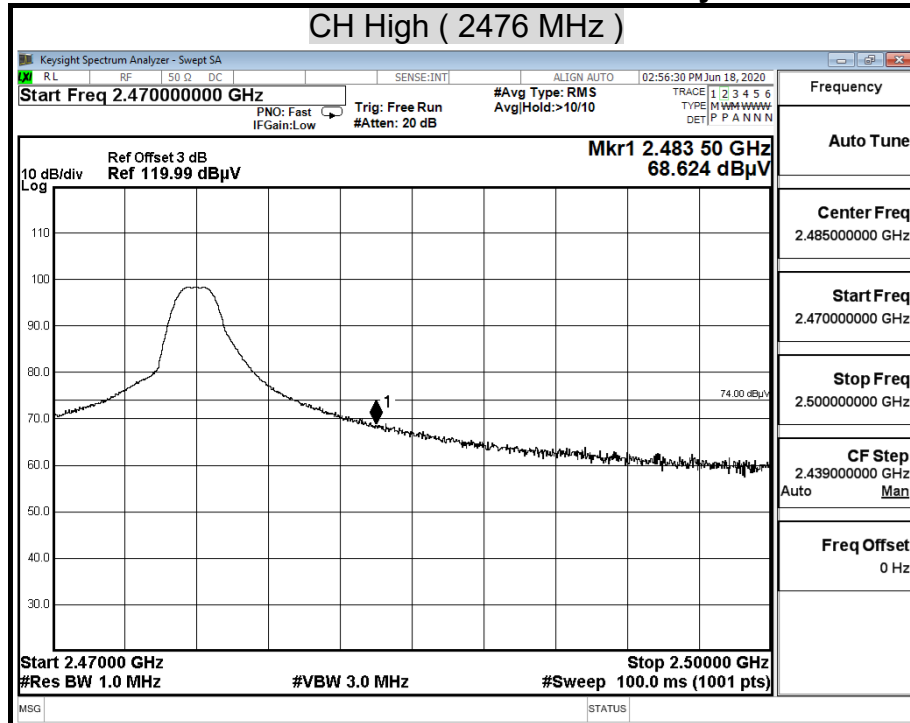
Detector mode : Average

Polarity : Vertical



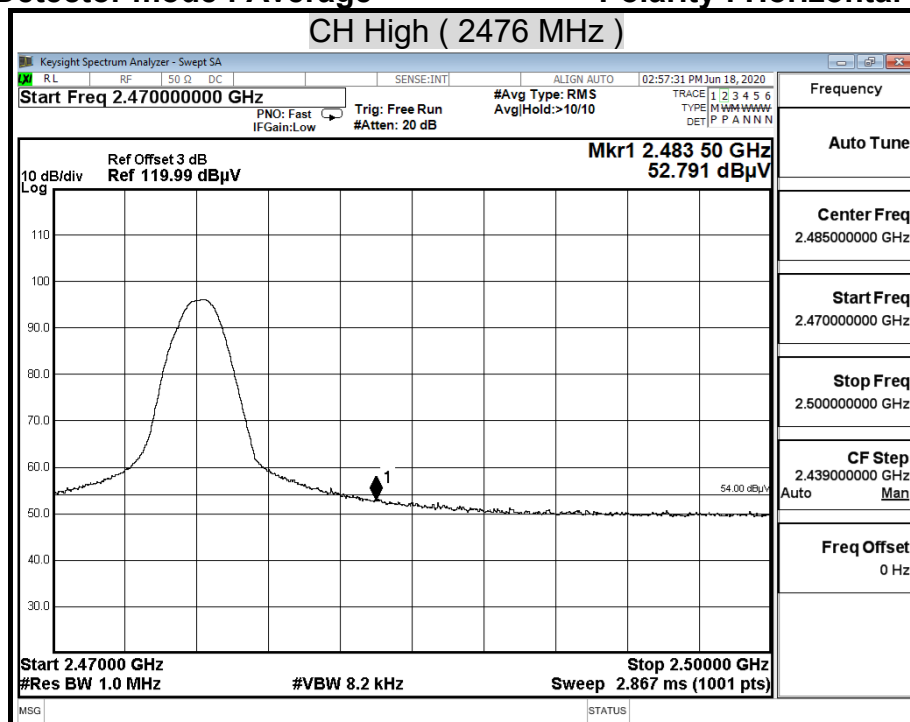
Detector mode : Peak

Polarity : Horizontal



Detector mode : Average

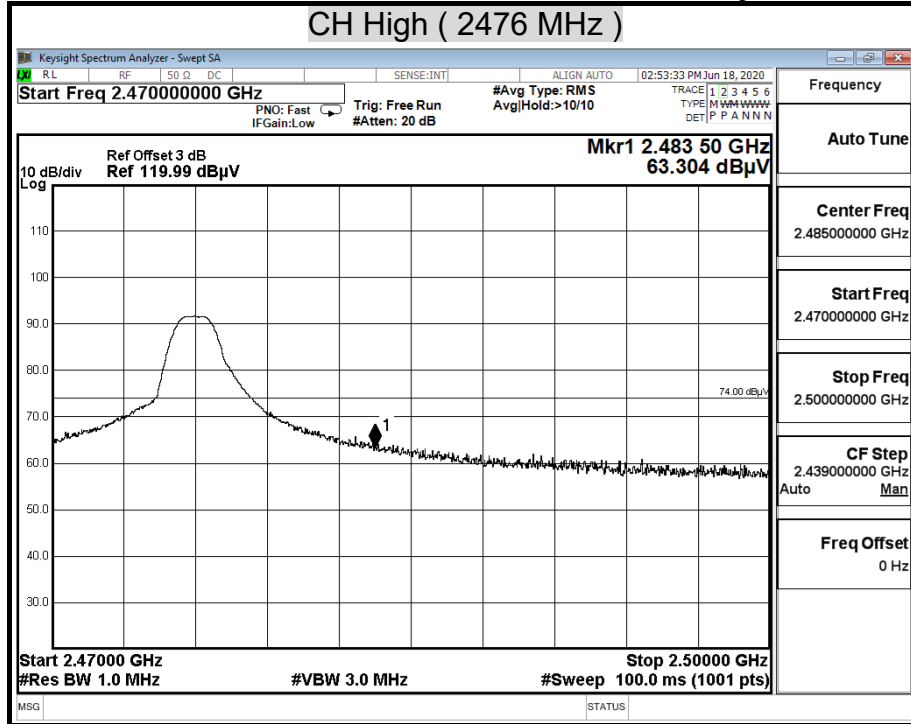
Polarity : Horizontal





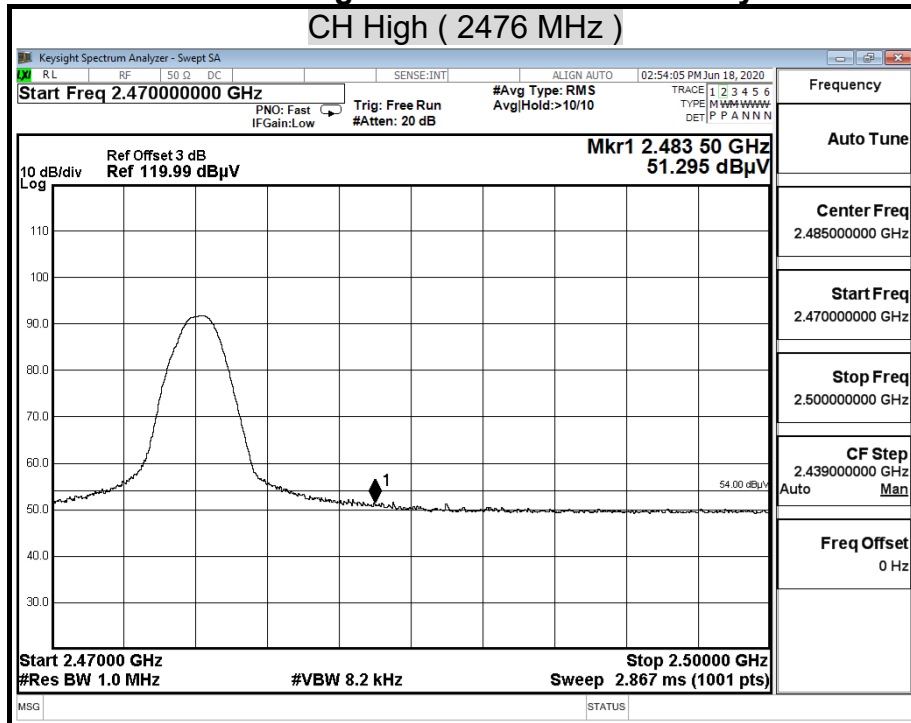
Detector mode : Peak

Polarity : Vertical



Detector mode : Average

Polarity : Vertical

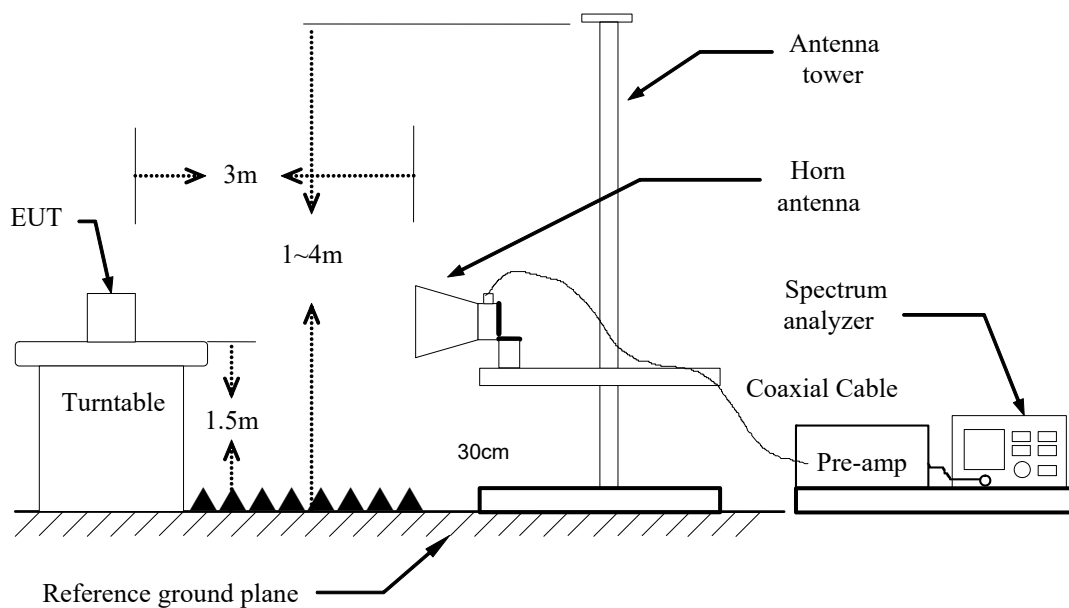


## 7.3 DUTY CYCLE

### LIMIT

Nil (No dedicated limit specified in the Rules)

### TEST CONFIGURATIONS



### TEST PROCEDURE

1. Place the EUT on the table and set it in transmitting mode.
2. Set center frequency of spectrum analyzer = operating frequency.
3. Set the spectrum analyzer as RBW, VBW=100KHz, Span = 0Hz, a suitable Sweep Time.
4. Repeat above procedures until all frequency measured were complete.

### TEST RESULTS

No non-compliance noted.

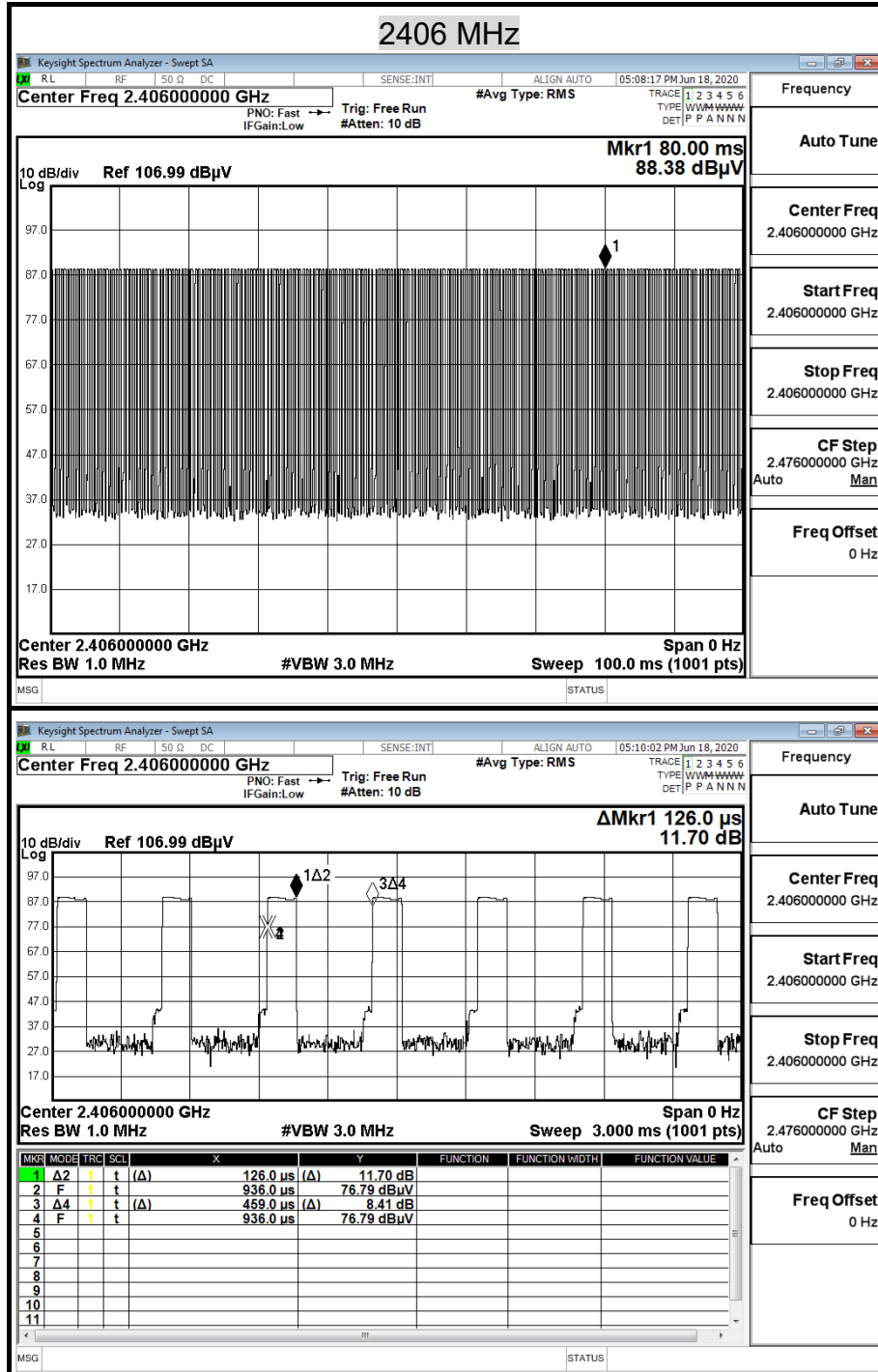
**TEST DATA****Operation Mode:** TX**Test Date:** 2020/06/18**Temperature:** 27.8°C**Tested by:** Ted Huang**Humidity:** 56% RH**Polarity:** Ver. / Hor.

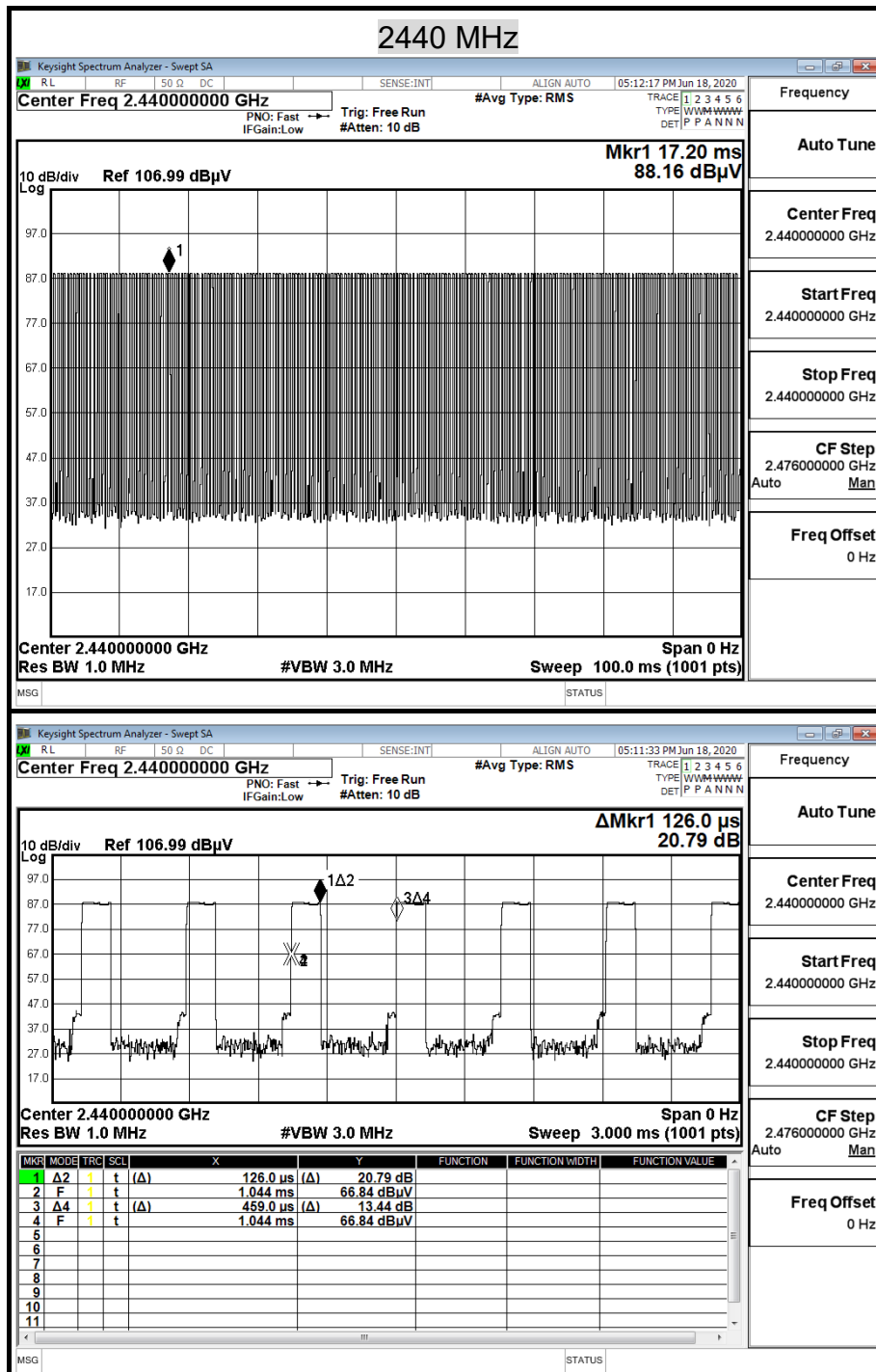
	us	Times	Ton	Total Ton time(ms)
Ton1	126.000	1	126.000	0.126
Ton2		0	0.000	
Ton3		0	0.000	
Tp				0.459

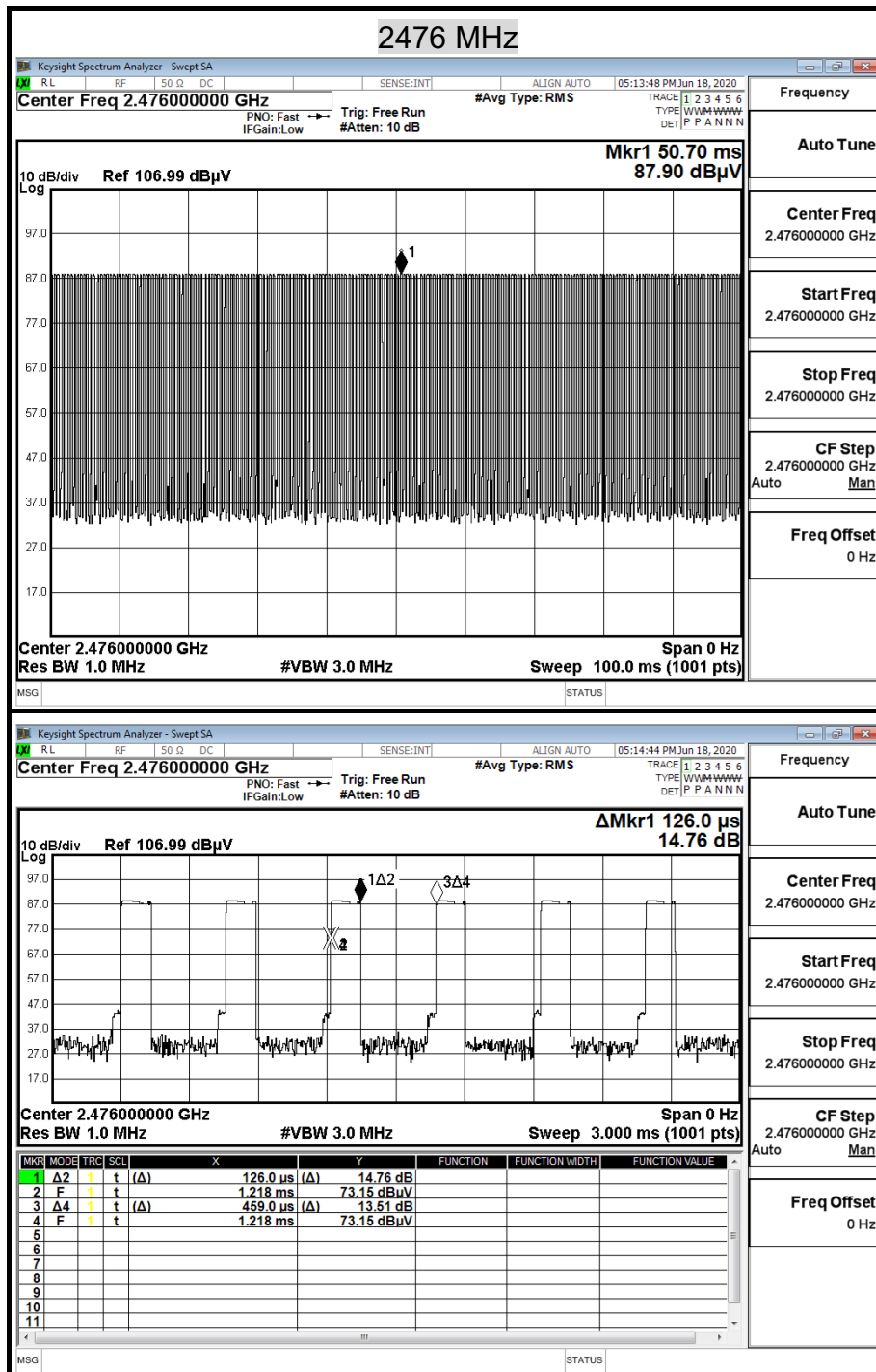
Ton	0.126
Tp(Ton+Toff)	0.459
Duty Cycle	0.275
Duty Factor	-11.229

27.451 %

## TEST PLOT







## 7.4 SPURIOUS EMISSION

### LIMIT

1. In the section 15.249(a):

Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency (MHz)	Field Strength of Fundamental Field Strength (mV/m)	Field Strength of Harmonics (µV/m)
902-928 MHz	50	500
2400 - 2483.5 MHz	50	500
5725 - 5875 MHz	50	500
24.0 - 24.25 GHz	250	2500

2. Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (µV/m)	Measurement Distance (m)
30-88	100*	3
88-216	150*	3
216-960	200*	3
Above 960	500	3

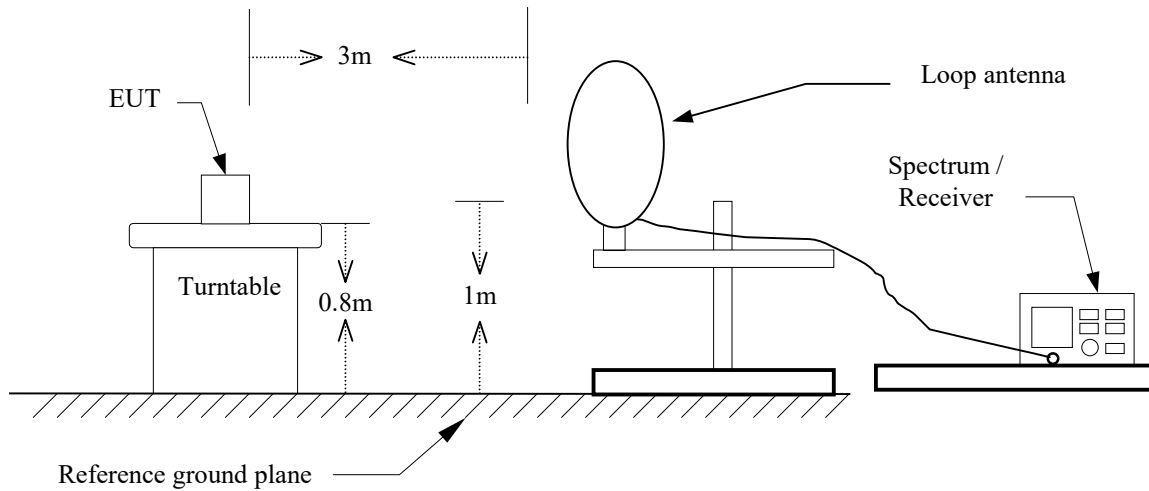
**Remark:** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

3. In the above emission table, the tighter limit applies at the band edges.

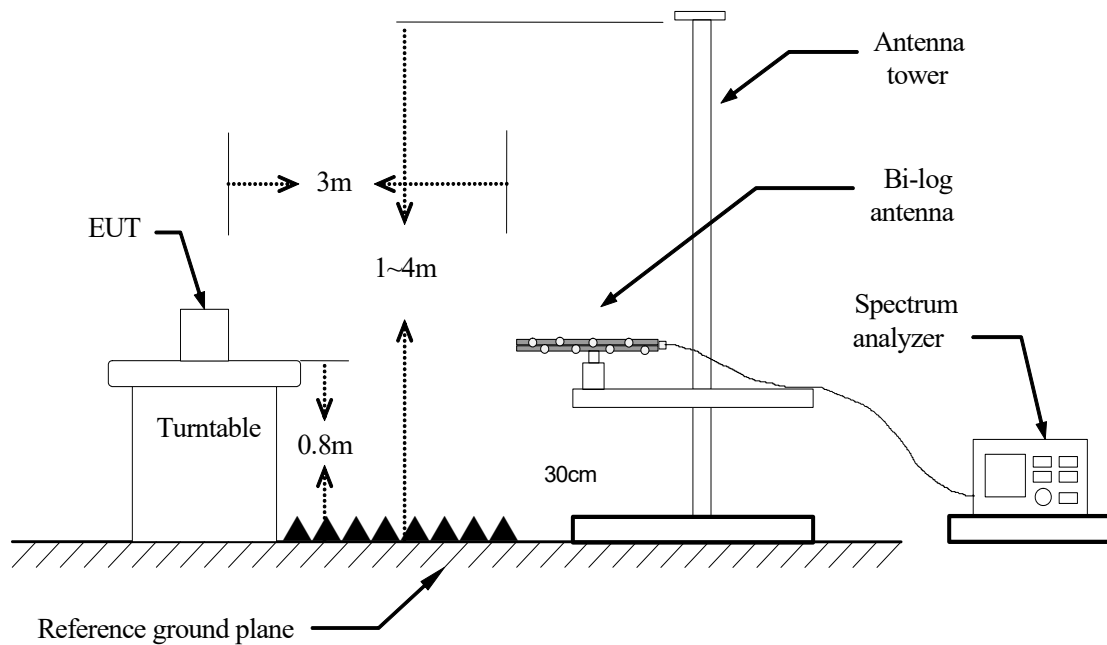
Frequency (MHz)	Field Strength (µV/m at 3-meter)	Field Strength (dBµV/m at 3-meter)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

## TEST CONFIGURATION

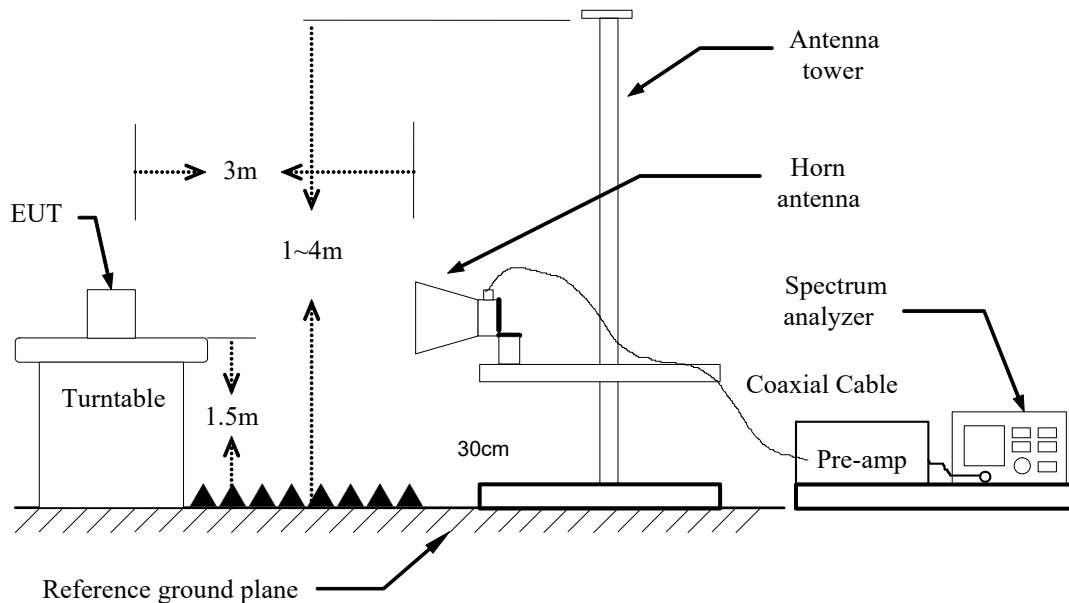
9kHz ~ 30MHz



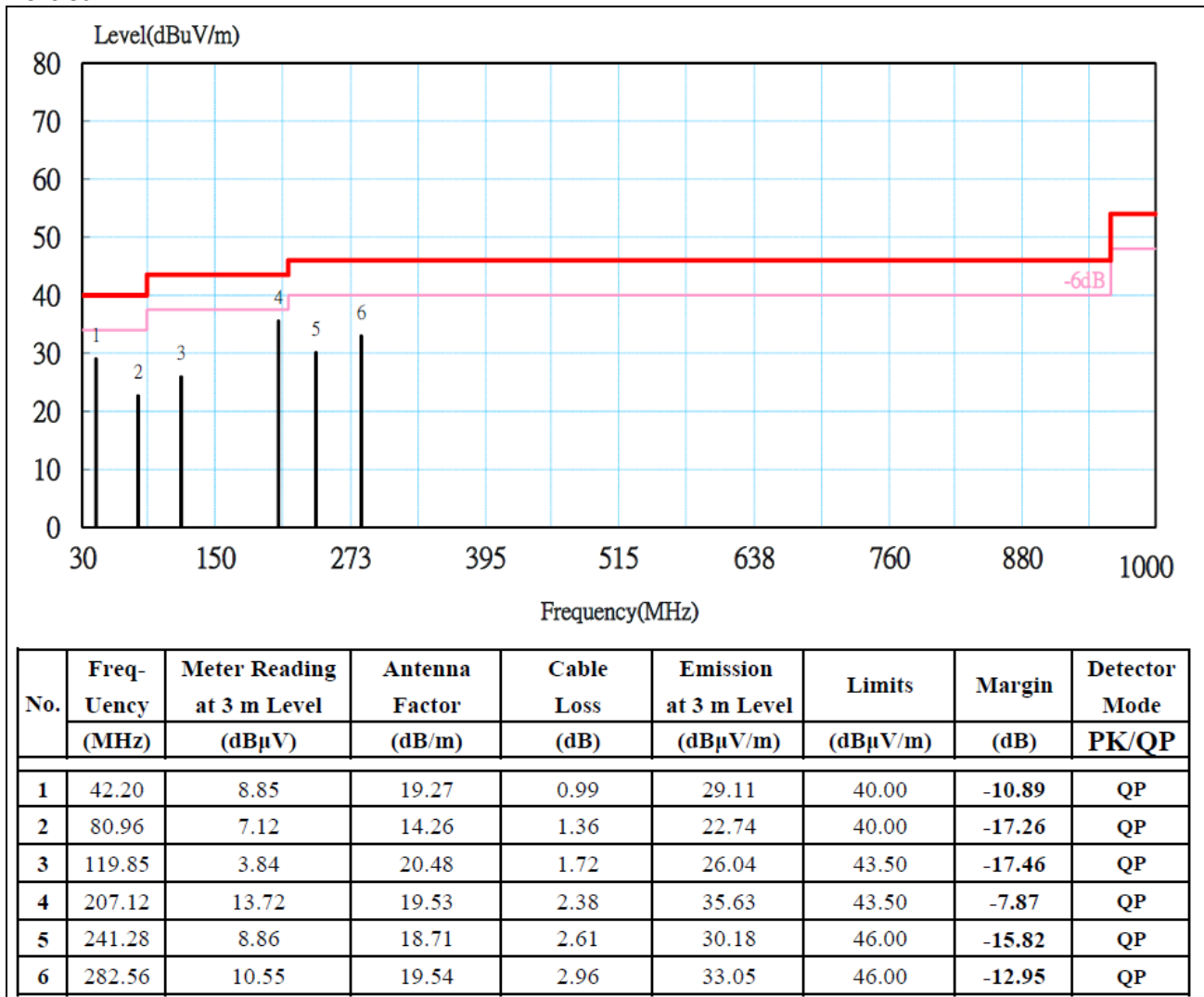
30MHz ~ 1GHz





**Above 1 GHz****TEST PROCEDURE**

1. The EUT is placed on a turntable, which is 0.8/1.5m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Set the spectrum analyzer in the following setting as:  
Below 1GHz:  
RBW=100kHz / VBW=300kHz / Sweep=AUTO  
Above 1GHz:  
(a) PEAK: RBW=VBW=1MHz / Sweep=AUTO  
(b) AVERAGE: Peak Level + Duty Factor
7. Repeat above procedures until the measurements for all frequencies are complete.

**Below 1 GHz****Operation Mode:** TX**Test Date:** 2020/06/18**Temperature:** 26.4°C**Tested by:** Ted Huang**Humidity:** 52% RH**Polarity:** Ver. / Hor.**Vertical****Remark:**

1. No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz).
2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using peak/quasi-peak detector mode.
3. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit or as required by the applicant.
4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
5. Margin (dB) = Remark result (dBuV/m) – Quasi-peak limit (dBuV/m).
6. That the limit for signals below 1GHz is a QP limit and peak readings are below the QP limit.
7. The fundamental signal is not shown in the test data because measurements at fundamental frequency are shown separately and were ignored during the 30 – 1000 MHz scan.

Operation Mode: TX

Test Date: 2020/06/18

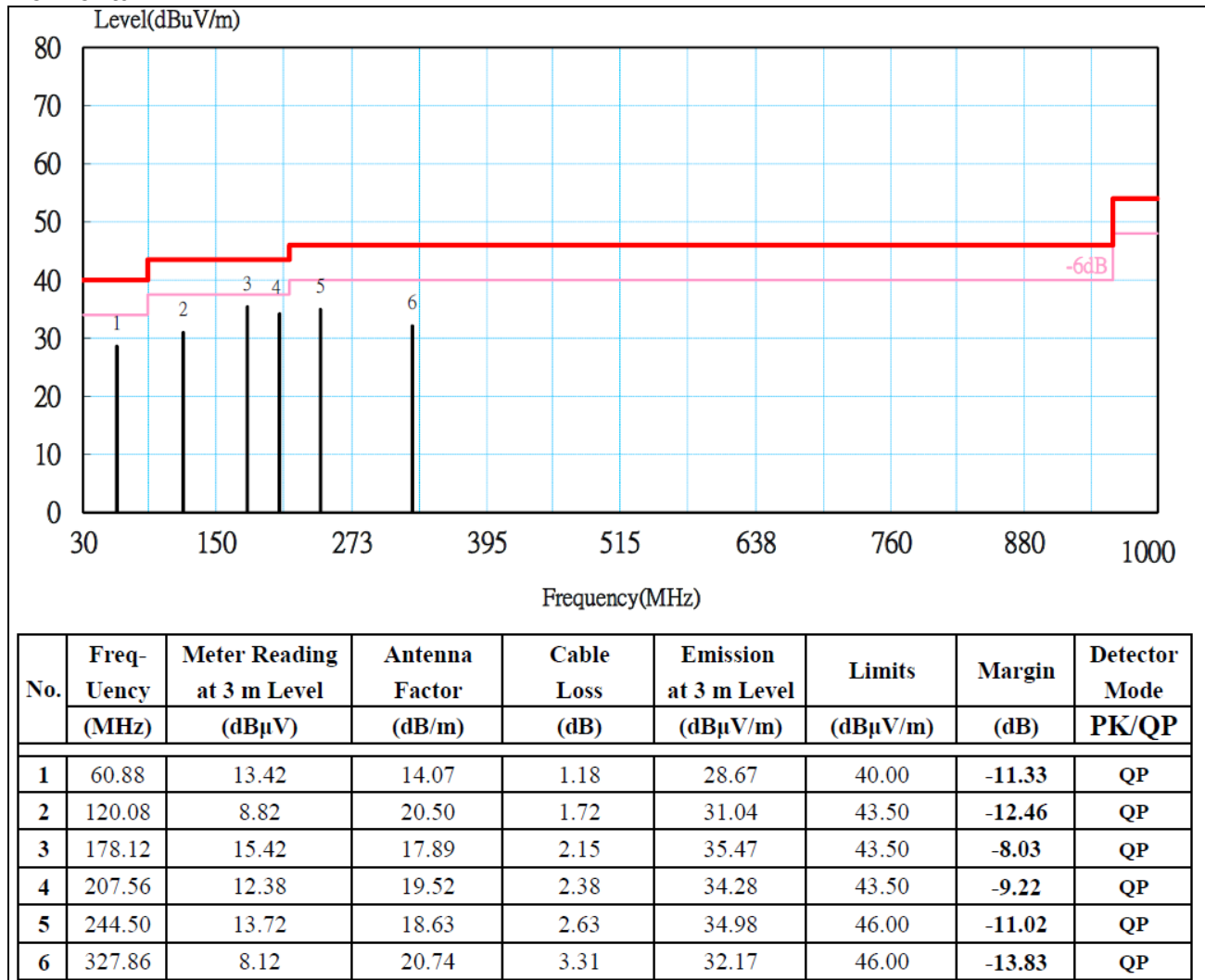
Temperature: 26.4°C

Tested by: Ted Huang

Humidity: 52% RH

Polarity: Ver. / Hor.

## Horizontal



## Remark:

- No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz).
- Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using peak/quasi-peak detector mode.
- Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit or as required by the applicant.
- Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- Margin (dB) = Remark result (dBuV/m) – Quasi-peak limit (dBuV/m).
- That the limit for signals below 1GHz is a QP limit and peak readings are below the QP limit.
- The fundamental signal is not shown in the test data because measurements at fundamental frequency are shown separately and were ignored during the 30 – 1000 MHz scan.

**The fundamental signal****Model:** JD-856R**Operation Mode:** TX CH Low**Temperature:** 23.8°C**Humidity:** 42% RH**Test Date:** 2021/01/04**Tested by:** Ted Huang**Polarity:** Ver. / Hor.**Horizontal**

Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
2406.000	109.589	30.275	3.009	45.05	0.00	97.82	114.00	-16.18	P
2406.00	-	-	-	-	-	86.51	94.00	-7.49	A

**Vertical**

Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
2406.000	103.572	30.275	3.009	45.05	0.00	91.81	114.00	-22.20	P
2406.00	-	-	-	-	-	80.49	94.00	-13.51	A

**Remark:**

*Margin (dB) = Remark result (dBuV/m) – Quasi-peak limit (dBuV/m).*

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Operation Mode: TX CH Middle

Temperature: 23.8°C

Humidity: 42% RH

Test Date: 2021/01/04

Tested by: Ted Huang

Polarity: Ver. / Hor.

#### Horizontal

Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
2440.00	109.12	30.25	3.03	45.03	0.00	97.37	114.00	-16.64	P
2440.00	-	-	-	-	-	86.05	94.00	-7.95	A

#### Vertical

Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
2440.00	103.86	30.25	3.03	45.03	0.00	92.11	114.00	-21.89	P
2440.00	-	-	-	-	-	80.80	94.00	-13.20	A

#### Remark:

*Margin (dB) = Remark result (dBuV/m) – Quasi-peak limit (dBuV/m).*

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Operation Mode: TX CH High

Temperature: 23.8°C

Humidity: 42% RH

Test Date: 2021/01/04

Tested by: Ted Huang

Polarity: Ver. / Hor.

## Horizontal

Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
2476.00	109.23	30.22	3.05	45.00	0.00	97.50	114.00	-16.50	P
2476.00	-	-	-	-	-	86.19	94.00	-7.81	A

## Vertical

Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
2476.00	104.85	30.22	3.05	45.00	0.00	93.11	114.00	-20.89	P
2476.00	-	-	-	-	-	81.80	94.00	-12.20	A

## Remark:

*Margin (dB) = Remark result (dBuV/m) – Quasi-peak limit (dBuV/m).*

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Rev.: 00**Model: JD-85R****Operation Mode:** TX CH Low**Test Date:** 2020/06/18**Temperature:** 27.8°C**Tested by:** Ted Huang**Humidity:** 56% RH**Polarity:** Ver. / Hor.

## Horizontal

Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
2406.000	110.891	30.275	3.009	45.051	0.000	99.124	114.000	-14.876	P
2406.000	-	-	-	-	-	87.895	94.000	-6.105	A

## Vertical

Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
2406.000	104.617	30.275	3.009	45.051	0.000	92.850	114.000	-21.150	P
2406.000	-	-	-	-	-	81.621	94.000	-12.379	A

**Remark:**

*Margin (dB) = Remark result (dBμV/m) – Quasi-peak limit (dBμV/m).*

**Operation Mode:** TX CH Middle**Temperature:** 27.8°C**Humidity:** 56% RH**Test Date:** 2020/06/18**Tested by:** Ted Huang**Polarity:** Ver. / Hor.

## Horizontal

Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
2440.00	110.655	30.248	3.028	45.026	0.000	98.905	114.000	-15.095	P
2440.00	-	-	-	-	-	87.676	94.000	-6.324	A

## Vertical

Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
2440.00	102.630	30.248	3.028	45.026	0.000	90.880	114.000	-23.120	P
2440.00	-	-	-	-	-	79.651	94.000	-14.349	A

**Remark:**

*Margin (dB) = Remark result (dBμV/m) – Quasi-peak limit (dBμV/m).*





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Operation Mode: TX CH High

Temperature: 27.8°C

Humidity: 56% RH

Test Date: 2020/06/18

Tested by: Ted Huang

Polarity: Ver. / Hor.

#### Horizontal

Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
2476.00	110.606	30.219	3.047	44.998	0.000	98.874	114.000	-15.126	P
2476.00	-	-	-	-	-	87.645	94.000	-6.355	A

#### Vertical

Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
2476.00	102.044	30.219	3.047	44.998	0.000	90.312	114.000	-23.688	P
2476.00	-	-	-	-	-	79.083	94.000	-14.917	A

#### Remark:

*Margin (dB) = Remark result (dBμV/m) – Quasi-peak limit (dBμV/m).*

**Above 1 GHz****Operation Mode:** TX CH Low**Test Date:** 2020/06/18**Temperature:** 27.8°C**Tested by:** Ted Huang**Humidity:** 56% RH**Polarity:** Ver. / Hor.**Horizontal**

	Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
	(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
*	1327.25	57.72	25.77	2.29	46.14	1.09	40.74	74.00	-33.26	P
*	1327.25	-	-	-	-	-	29.51	54.00	-24.49	A
*	4812.57	60.44	33.26	4.31	44.77	0.36	53.60	74.00	-20.40	P
*	4812.57	-	-	-	-	-	42.38	54.00	-11.62	A
	7218.25	55.35	38.73	5.39	44.05	0.33	55.75	74.00	-18.25	P
	7218.25	-	-	-	-	-	44.52	54.00	-9.48	A

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m). Peak detector mode and average detector mode of the emission shown in Result column.
7. Average level=Peak level + Duty factor.

**Operation Mode:** TX CH Low**Test Date:** 2020/06/18**Temperature:** 27.8°C**Tested by:** Ted Huang**Humidity:** 56% RH**Polarity:** Ver. / Hor.

## Vertical

	Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
	(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
*	1329.61	60.96	25.78	2.30	46.13	1.08	43.99	74.00	-30.01	P
*	1329.61	-	-	-	-	-	32.76	54.00	-21.24	A
*	4812.47	58.07	33.26	4.31	44.77	0.36	51.23	74.00	-22.77	P
*	4812.47	-	-	-	-	-	40.01	54.00	-13.99	A
	7217.01	55.15	38.72	5.39	44.05	0.33	55.55	74.00	-18.45	P
	7217.01	-	-	-	-	-	44.32	54.00	-9.68	A

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m). Peak detector mode and average detector mode of the emission shown in Result column.
7. Average level=Peak level + Duty factor.

**Operation Mode:** TX CH Middle**Test Date:** 2020/06/18**Temperature:** 27.8°C**Tested by:** Ted Huang**Humidity:** 56% RH**Polarity:** Ver. / Hor.

## Horizontal

	Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
	(MHz)	(dB $\mu$ V)	(dB/m)	(dB)	(dB)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	(P/Q/A)
*	1327.21	57.56	25.77	2.29	46.14	1.09	40.58	74.00	-33.42	P
*	1327.21	-	-	-	-	-	29.35	54.00	-24.65	A
*	4879.85	59.11	33.49	4.35	44.78	0.38	52.55	74.00	-21.45	P
*	4879.85	-	-	-	-	-	41.33	54.00	-12.67	A
*	7320.61	54.37	39.12	5.43	43.94	0.32	55.30	74.00	-18.70	P
*	7320.61	-	-	-	-	-	44.07	54.00	-9.93	A

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dB $\mu$ V/m) – Average limit (dB $\mu$ V/m). Peak detector mode and average detector mode of the emission shown in Result column.
7. Average level=Peak level + Duty factor.

**Operation Mode:** TX CH Middle**Test Date:** 2020/06/18**Temperature:** 27.8°C**Tested by:** Ted Huang**Humidity:** 56% RH**Polarity:** Ver. / Hor.

## Vertical

	Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
	(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
*	1328.65	61.24	25.78	2.30	46.14	1.09	44.27	74.00	-29.73	P
*	1328.65	-	-	-	-	-	33.04	54.00	-20.96	A
*	4880.05	57.04	33.49	4.35	44.78	0.38	50.48	74.00	-23.52	P
*	4880.05	-	-	-	-	-	39.25	54.00	-14.75	A
*	7319.44	54.46	39.11	5.43	43.94	0.32	55.38	74.00	-18.62	P
*	7319.44	-	-	-	-	-	44.15	54.00	-9.85	A

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m). Peak detector mode and average detector mode of the emission shown in Result column.
7. Average level=Peak level + Duty factor.

**Operation Mode:** TX CH High**Test Date:** 2020/06/18**Temperature:** 27.8°C**Tested by:** Ted Huang**Humidity:** 56% RH**Polarity:** Ver. / Hor.

## Horizontal

	Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
	(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
*	1327.28	58.24	25.77	2.29	46.14	1.09	41.26	74.00	-32.74	P
*	1327.28	-	-	-	-	-	30.03	54.00	-23.97	A
*	4952.42	58.07	33.74	4.38	44.78	0.40	51.81	74.00	-22.19	P
*	4952.42	-	-	-	-	-	40.58	54.00	-13.42	A
*	7427.59	54.21	39.52	5.48	43.83	0.32	55.70	74.00	-18.30	P
*	7427.59	-	-	-	-	-	44.48	54.00	-9.52	A

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m). Peak detector mode and average detector mode of the emission shown in Result column.
7. Average level=Peak level + Duty factor.

**Operation Mode:** TX CH High**Test Date:** 2020/06/18**Temperature:** 27.8°C**Tested by:** Ted Huang**Humidity:** 56% RH**Polarity:** Ver. / Hor.

## Vertical

	Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
	(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
*	1330.52	60.78	25.79	2.30	46.13	1.08	43.82	74.00	-30.18	P
*	1330.52	-	-	-	-	-	32.59	54.00	-21.41	A
*	4951.77	58.24	33.74	4.38	44.78	0.40	51.97	74.00	-22.03	P
*	4951.77	-	-	-	-	-	40.75	54.00	-13.25	A
*	7427.95	54.87	39.53	5.48	43.83	0.32	56.36	74.00	-17.64	P
*	7427.95	-	-	-	-	-	45.13	54.00	-8.87	A

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m). Peak detector mode and average detector mode of the emission shown in Result column.
7. Average level=Peak level + Duty factor.

## 7.5 POWERLINE CONDUCTED EMISSIONS

### LIMIT

According to §15.207(a), except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50  $\mu$ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency Range (MHz)	Limits (dB $\mu$ V)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

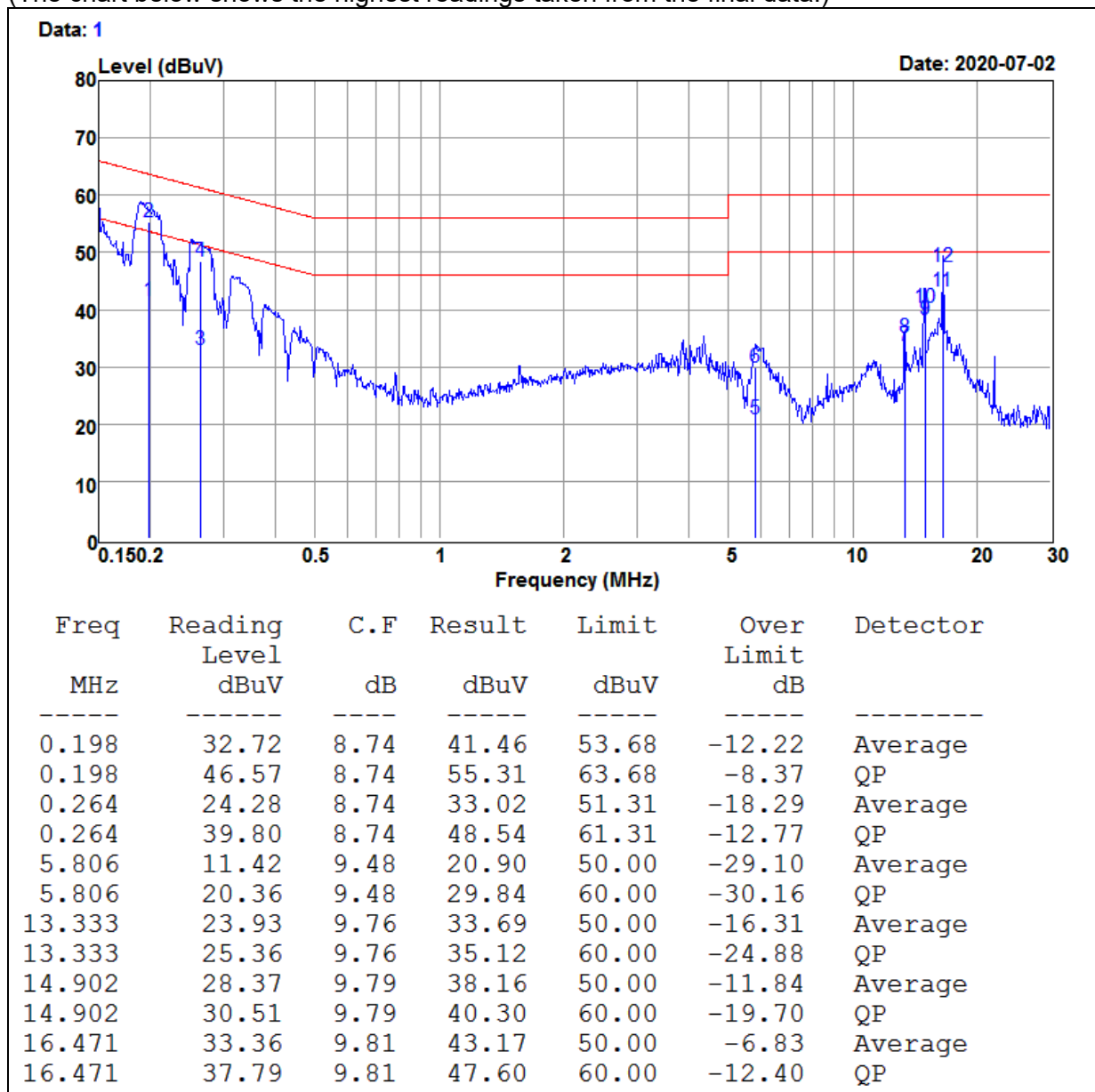


**TEST RESULTS****Test Voltage : AC110V, 60Hz**

<b>Model No.</b>	JD-85R	<b>Test Mode</b>	Normal Operation
<b>Environmental Conditions</b>	25.8°C, 62% RH	<b>Resolution Bandwidth</b>	9 kHz
<b>Tested by</b>	Leo Wang		

**LINE**

(The chart below shows the highest readings taken from the final data.)

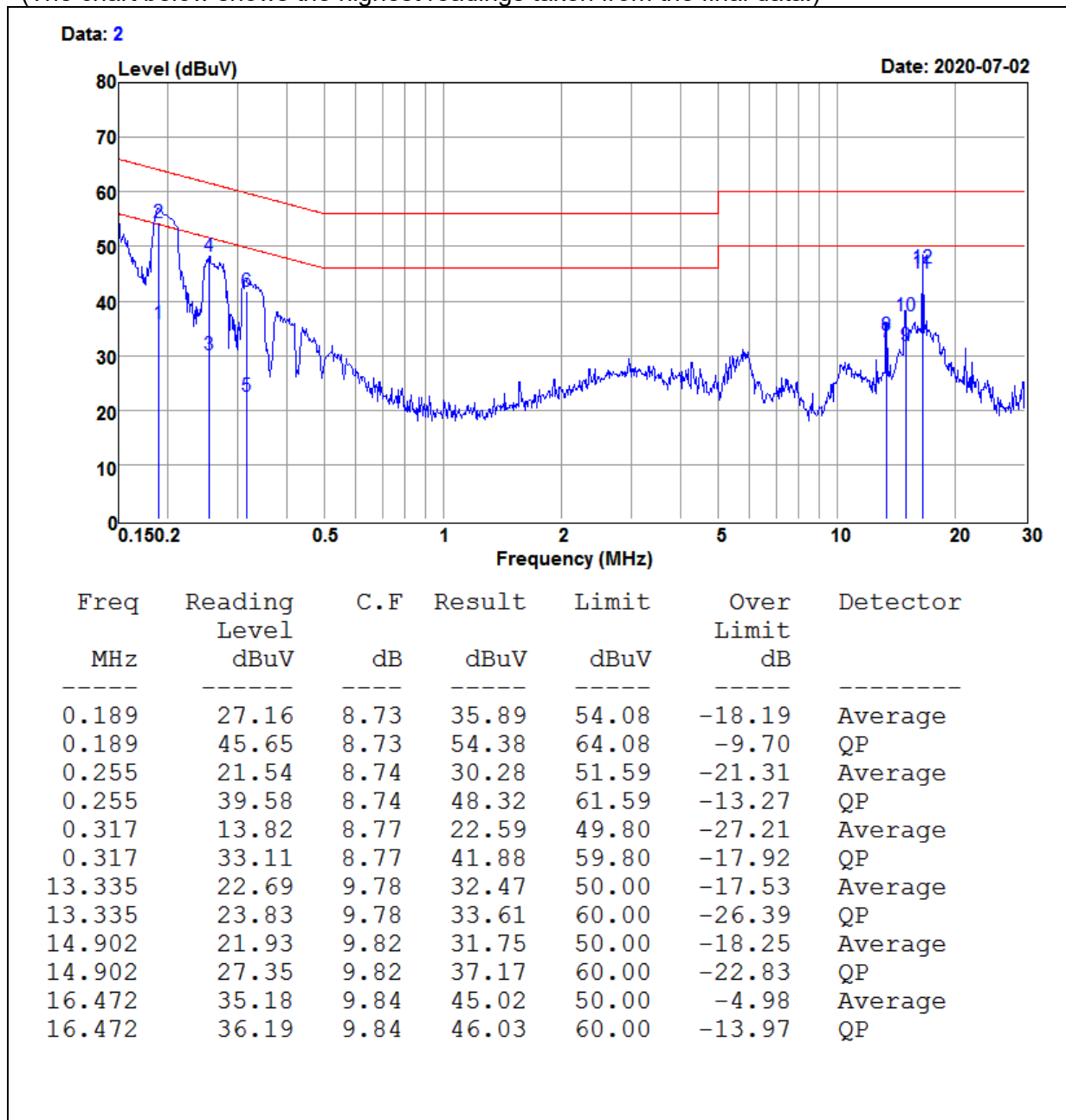


REMARKS : 1. Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB)  
 2. Over Limit (dBuV) = Measured Level (dBuV) – Limits (dBuV)

Model No.	JD-85R	Test Mode	Normal Operation
Environmental Conditions	25.8°C, 62% RH	Resolution Bandwidth	9 kHz
Tested by	Leo Wang		

**Neutral**

(The chart below shows the highest readings taken from the final data.)



REMARKS : 1. Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB)  
 2. Over Limit (dBuV) = Measured Level (dBuV) – Limits (dBuV)